

```

chain nodes :
  7 8 9 10 11 20
ring nodes :
  1 2 3 4 5 6 12 13 14 15 16 17 23 24 25 26 27 28 29 30 31 32 33 34 35
  36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52
chain bonds :
  3-7 7-8 8-9 9-10 10-11 10-17
ring bonds :
  1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-17 13-14 14-15 15-16 16-17 23-24 23-28 24-25
  25-26 26-27 27-28 29-30 29-34 30-31 31-32 32-33 33-34 35-36 35-40 36-37 37-38
  38-39 39-40 41-42 41-46 42-43 43-44 44-45 45-46 47-48 47-52 48-49 49-50 50-51
  51-52
exact/norm bonds :
  3-7 7-8 8-9 9-10 10-11
exact bonds :
  10-17
normalized bonds :
  1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-17 13-14 14-15 15-16 16-17 23-24 23-28 24-25
  25-26 26-27 27-28 29-30 29-34 30-31 31-32 32-33 33-34 35-36 35-40 36-37 37-38
  38-39 39-40 41-42 41-46 42-43 43-44 44-45 45-46 47-48 47-52 48-49 49-50 50-51
  51-52
isolated ring systems :
  containing 1 : 12 : 23 : 29 : 35 : 41 : 47 :

```

G1: [*1-*2], [*3-*4], [*5-*6], [*7-*8], [*9-*10]

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:CLASS 10:CLASS 11:CLASS
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 20:Atom 21:Atom 23:Atom 24:Atom
25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom 32:Atom 33:Atom 34:Atom
35:Atom 36:Atom 37:Atom 38:Atom 39:Atom 40:Atom 41:Atom 42:Atom 43:Atom 44:Atom
45:Atom 46:Atom 47:Atom 48:Atom 49:Atom 50:Atom 51:Atom 52:Atom
Generic attributes :
20:

```

Number of Carbon Atoms : less than 7
Type of Ring System : Monocyclic

Element Count :

Node 8: Limited

C,C5

N,N1

O,O0

S,S0

Node 20: Limited

C,C4-5

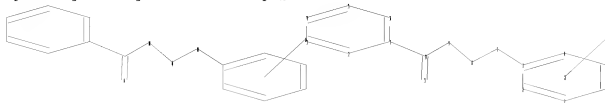
N,N1-2

O,O0

S,S0

=>

Uploading C:\Program Files\Stnexp\Queries\10522944.str



```

chain nodes :
7 8 9 10 11 20
ring nodes :
1 2 3 4 5 6 12 13 14 15 16 17
chain bonds :
3-7 7-8 8-9 9-10 10-11 10-17
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-17 13-14 14-15 15-16 16-17
exact/norm bonds :
3-7 7-8 8-9 9-10 10-11
exact bonds :
10-17
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-17 13-14 14-15 15-16 16-17
isolated ring systems :
containing 1 : 12 :
```

Match level :

```

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:CLASS 10:CLASS
11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 20:Atom 21:Atom
Generic attributes :
```

8:

Saturation : Unsaturated

Number of Carbon Atoms : less than 7

Number of Hetero Atoms : Exactly 1

Type of Ring System : Monocyclic

20:

Number of Carbon Atoms : less than 7

Type of Ring System : Monocyclic

Element Count :

Node 8: Limited

C,C5

N,N1

O,O0

S,S0

Node 20: Limited

C,C4-5

N,N1-2

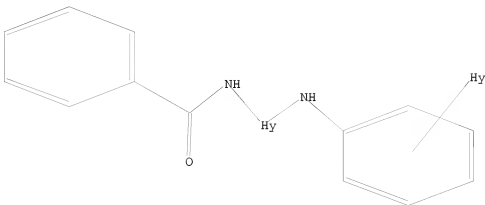
O,00
S,50

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam

SAMPLE SEARCH INITIATED 18:21:46 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 99490 TO ITERATE

2.0% PROCESSED 2000 ITERATIONS

0 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**

BATCH **INCOMPLETE**

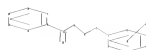
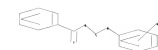
PROJECTED ITERATIONS: 1971074 TO 2008526

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=>

Uploading C:\Program Files\Stnexp\Queries\10522944 (a).str



chain nodes :
7 8 9 10 11 20

```

ring nodes :
1  2  3  4  5  6 12 13 14 15 16 17 23 24 25 26 27 28 29 30 31 32
33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52
chain bonds :
3-7  7-8  8-9  9-10 10-11 10-17
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6 12-13 12-17 13-14 14-15 15-16 16-17 23-24
23-28 24-25 25-26 26-27 27-28 29-30 29-34 30-31 31-32 32-33 33-34 35-36
35-40 36-37 37-38 38-39 39-40 41-42 41-46 42-43 43-44 44-45 45-46 47-48
47-52 48-49 49-50 50-51 51-52
exact/norm bonds :
3-7  7-8  8-9  9-10 10-11
exact bonds :
10-17
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6 12-13 12-17 13-14 14-15 15-16 16-17 23-24
23-28 24-25 25-26 26-27 27-28 29-30 29-34 30-31 31-32 32-33 33-34 35-36
35-40 36-37 37-38 38-39 39-40 41-42 41-46 42-43 43-44 44-45 45-46 47-48
47-52 48-49 49-50 50-51 51-52
isolated ring systems :
containing 1 : 12 : 23 : 29 : 35 : 41 : 47 :

```

```
G1:[*1-*2],[*3-*4],[*5-*6],[*7-*8],[*9-*10]
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```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:CLASS 10:CLASS
11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 20:Atom 21:Atom
23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom
32:Atom 33:Atom 34:Atom 35:Atom 36:Atom 37:Atom 38:Atom 39:Atom 40:Atom
41:Atom 42:Atom 43:Atom 44:Atom 45:Atom 46:Atom 47:Atom 48:Atom 49:Atom
50:Atom 51:Atom 52:Atom
Generic attributes :
20:
Number of Carbon Atoms : less than 7
Type of Ring System    : Monocyclic

```

```
Element Count :
```

```

Node 8: Limited
C,C5
N,N1
O,O0
S,S0

```

```
Node 20: Limited
```

```

C,C4-5
N,N1-2
O,O0
S,S0

```

```
L3      STRUCTURE UPLOADED
```

=> d 13

L3 HAS NO ANSWERS

L3 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s 13 sss sam

SAMPLE SEARCH INITIATED 18:27:39 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 115 TO ITERATE

100.0% PROCESSED 115 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 1657 TO 2943

PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L3

=> s 13 sss ful

FULL SEARCH INITIATED 18:29:10 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 2096 TO ITERATE

100.0% PROCESSED 2096 ITERATIONS

5 ANSWERS

SEARCH TIME: 00.00.01

L5 5 SEA SSS FUL L3

=> => s 15

L6 1 L5

=> d 16 bib,ab,hitstr

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2004:101157 CAPLUS

DN 140:163885

TI Preparation of pyrimidinylphenylaminopyridylbenzamides as protein tyrosine kinase inhibitors

IN Danter, Wayne R.; Brown, Martyn; Ma, George; Rusu, Ghenadie; Zhong, Jianhua; Lazarowich, Natalie; Houldsworth, Stephen

PA Can.

SO PCT Int. Appl., 42 pp.

CODEN: PIXXD2

DT Patent

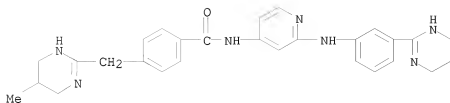
LA English

FAN.CNT 1

Applicant's

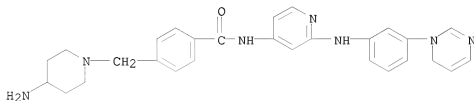
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004011456	A1	20040205	WO 2003-CA1162	20030731
WO 2004011456	A8	20040805		
WO 2004011456	A9	20050602		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SV, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2494061	A1	20040205	CA 2003-2494061	20030731
AU 2003250701	A1	20040216	AU 2003-250701	20030731
EP 1542989	A1	20050622	EP 2003-771039	20030731
EP 1542989	B1	20070418		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
AT 360015	T	20070515	AT 2003-771039	20030731
US 20060069105	A1	20060330	US 2005-0069105	20050728
PRAI US 2002-399408P	P	20020731		
WO 2003-CA1162	W	20030731		
OS MARPAT 140:163885				
AB	Title compds. [I; n = integer; R1, R2 = (substituted) piperidinyl, dihydropyrimidinyl, tetrahydropyrimidinyl], were prepared Thus, amine (II) (preparation given), chloropyridine (III) (preparation given), Pd(OAc) ₂ , and			
BINAP	were heated together for 20 h to give 6.5% protected coupling product which was treated with HCl in MeOH to give 70% title compound (IV). IV showed -Log(GI50) = -5.7 against K562(CML) leukemia cells expressing abnormal protein tyrosine kinase in an in silico assay.			
IT 653593-64-7P 653593-65-8P 653593-66-9P 653593-67-0P				
RL:	PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)			
	(preparation of pyrimidinylphenylaminopyridylbenzamides as protein tyrosine kinase inhibitors)			
RN 653593-64-7 CAPLUS				
CN Benzamide, 4-[(1,4,5,6-tetrahydro-5-methyl-2-pyrimidinyl)methyl]-N-[2-[(1,4,5,6-tetrahydro-2-pyrimidinyl)phenyl]amino]-4-pyridinyl]- (CA INDEX				

NAME)



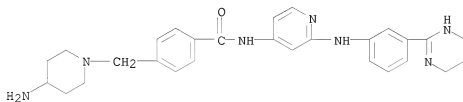
RN 653593-65-8 CAPLUS

CN Benzamide, 4-[(4-amino-1-piperidinyl)methyl]-N-[2-[[3-(1,6H)-pyrimidinyl]phenyl]amino]-4-pyridinyl]- (CA INDEX NAME)



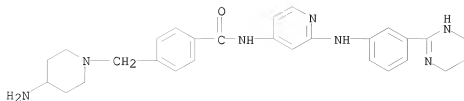
RN 653593-66-9 CAPLUS

CN Benzamide, 4-[(4-amino-1-piperidinyl)methyl]-N-[2-[[3-(1,4,5,6-tetrahydro-2-pyrimidinyl)phenyl]amino]-4-pyridinyl]- (CA INDEX NAME)



RN 653593-67-0 CAPLUS

CN Benzamide, 4-[(4-amino-1-piperidinyl)methyl]-N-[2-[[3-(1,4,5,6-tetrahydro-2-pyrimidinyl)phenyl]amino]-4-pyridinyl]-, tetrahydrochloride (9CI) (CA INDEX NAME)



● 4 HCl

IT 653593-68-1P

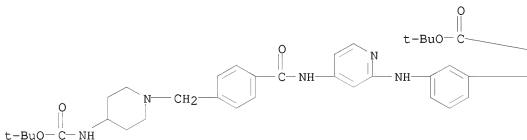
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of pyrimidinylphenylaminopyridylbenzamides as protein tyrosine kinase inhibitors)

RN 653593-68-1 CAPLUS

CN 1(4H)-Pyrimidinecarboxylic acid, 2-[3-[[4-[[4-[[[(1,1-dimethylethoxy)carbonyl]amino]-1-piperidinyl]methyl]benzoyl]amino]-2-pyridinyl]amino]phenyl]-5,6-dihydro-, 1,1-dimethylethyl ester (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



RE.CNT 2

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/522,944

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

5.93

190.23

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-0.80

-0.80

STN INTERNATIONAL LOGOFF AT 18:29:41 ON 17 APR 2008